

Fig. 1

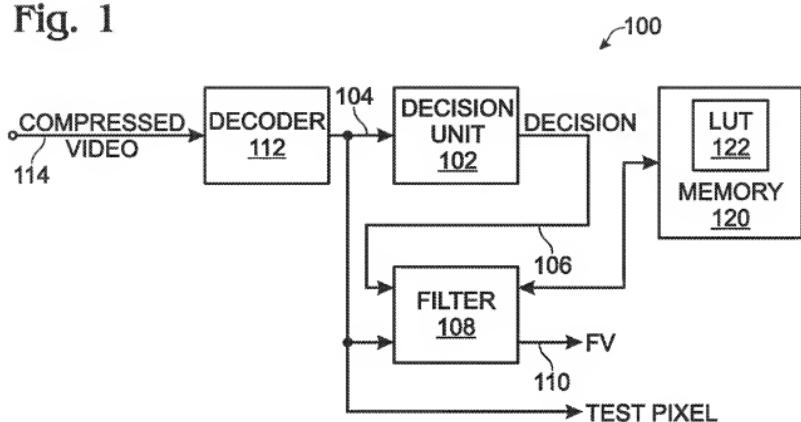


Fig. 2

1a	1b	1c
2a	2b	2c
1d	1e TEST PIXEL	1f
2d	2e	2f
1g	1h	1i
2g	2h	2i

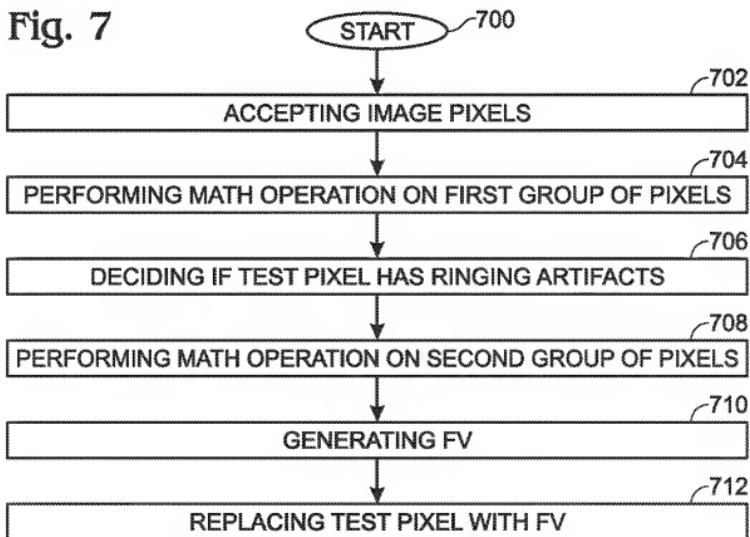
Fig. 3

nE	TIMES ADDED	TIMES SUBTRACTED	TIMES RIGHT-SHIFTED	
1	1	0	1	
2	2	0	2	
3	1	0	2	
4	4	0	3	
5	3	0	3	
6	2	0	3	
7	1	0	3	
8	1	1	3	

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Fig. 7



```
if(De-ringing filter) / De-ringing filter decision made by decision stage
{
nE=0;
newVal=0;

for(ix=1;ix<=1;ix++)
    for(iy=-1;iy<=1;iy++)
    {
        if(Map(i + ix, j + iy)==0)
        {
            if((ix!=0 || (iy!=0))
            {
                newVal = newVal + I(i+ix, j+iy);
                nE++;
            }
        }
    }

if(nE==1)
{
    I(i, j)+((newVal +I(i, j) +1)>>1);
}
else if(nE<4)
{
    for(ii=nE;ii<4;ii++)
    {
        newVal = newVal + I(i, j);
    }
    I(i, j)=(( newVal +2)>>2);
}
else if(nE<8)
{
    for(ii=nE;ii<8;ii++)
    {
        newVal = newVal + I(i, j);
    }
    I(i, j)=((rAug+4)>>3);
}
else if(nE==8)
{
    I(i, j)=(( newVal- I (i + 1, j + 1) + I(i, j) +4)>>3);
}
```

Fig. 4

Fig. 5

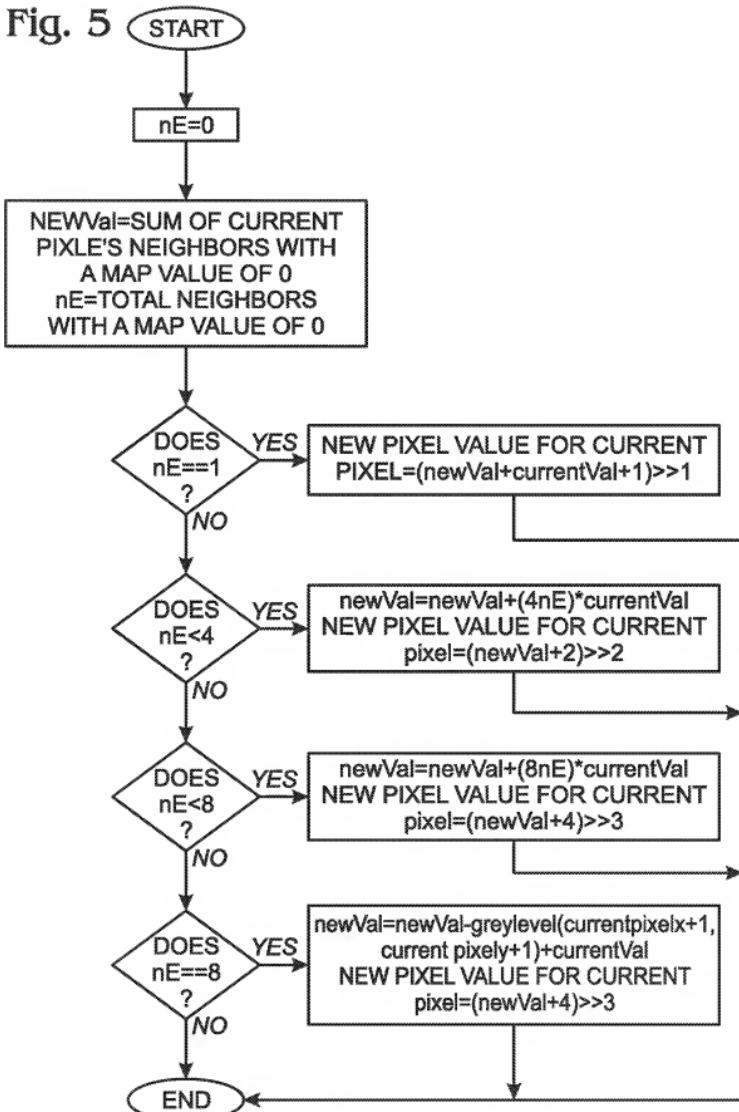


Fig. 6

